Claim Amendments

Claim 1 (currently-amended): An electrical resistor, comprising:

a resistance zone formed of a metal alloy;

connections:

electrically conductive power supply leads constructed as busbars; and

an insulating layer between said power supply leads for electrically insulating and thermally coupling said power supply leads;

said power supply leads connected to said connections;

said power supply leads running parallel to one another;

said power supply leads have having ends remote from said resistance zone; and

said ends of said power supply leads being constructed as connection contacts;

a construction including said resistance zone and said power supply leads except for said connection contacts; and

another electrically insulating and thermally conducting layer surrounding said construction.

Claim 2 (cancelled)

Claim 3 (currently-amended): The electrical resistor according to claim [[2]] 1, comprising:

an electrically and thermally conducting layer surrounding said construction and said other insulating layer.

Claim 4 (original): The electrical resistor according to claim 1, wherein said power supply leads are intermeshed in one another.

Claim 5 (original): The electrical resistor according to claim 1, wherein said power supply leads are of coaxial design.

Claim 6 (original): The electrical resistor according to claim 1, wherein said power supply leads are configured in a

Applic. No. 10/007,390 Amdt. dated January 15, 2004

Reply to Office action of October 16, 2003

manner selected from the group consisting of being stacked and being rolled up like a wound capacitor.

Claim 7 (currently-amended): An electrical resistor assembly, comprising:

an electrical resistor to be protected from adjacent structural parts producing heat or cold, said electrical resistor including:

a resistance zone formed of a metal alloy;

connections;

electrically conductive power supply leads constructed as busbars; and

an insulating layer between said power supply leads for electrically insulating and thermally coupling said power supply leads;

said power supply leads connected to said connections;

said power supply leads running parallel to one another;

> said power supply leads have having ends remote from said resistance zone;

said ends of said power supply leads being constructed as connection contacts; and

a construction including said resistance zone and said power supply leads except for said connection contacts; and

another electrically insulating and thermally conducting layer surrounding said construction; and

a protective barrier made of thermally non-conducting material disposed between said electrical resistor and the adjacent structural parts producing heat or cold.

Claim 8 (currently-amended): An electrical resistor, comprising:

a resistance zone;

connections having dimensions;

electrically conductive power supply leads constructed as bushars, said electrically conductive power supply leads having a width and a thickness corresponding to said dimensions of said connections; and

an insulating layer between said power supply leads for electrically insulating and thermally coupling said power supply leads;

said power supply leads connected to said connections;

said power supply leads running parallel to one another;

said power supply leads have having ends remote from said resistance zone; and

said ends of said power supply leads being constructed as connection contacts;

a construction including said resistance zone and said power supply leads except for said connection contacts; and

another electrically insulating and thermally conducting layer surrounding said construction.

Claim 9 (previously-presented): The electrical resistor according to claim 1, wherein said connections have dimensions and said electrically conductive power supply leads have a width and thickness corresponding to said dimensions of said connections.

Claim 10 (previously-presented): The electrical resistor according to claim 1, wherein said metal alloy is manganin.

Claim 11 (previously-presented): The electrical resistor according to claim 7, wherein said metal alloy is manganin.